
[illegible][illegible]

Examiner Signature		Date Considered	9-2-03
-----------------------	---	--------------------	--------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08A (05-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 05/02/2003.

Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

⑤

Dup

Form PTO-1449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7490

SERIAL NO.

09/461,068

APPLICANT

ACHARYA, et al.

FILING DATE

12/14/99

GROUP

2712

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

GROUP 2700

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NV	5,014,134	05/07/91	Lawton, et al.			
	5,321,776	06/14/94	Shapiro			
	5,392,255	02/21/95	LeBras, et al.			
	5,491,561	2/13/96	Fukuda			
	5,602,589	2/11/97	Vishwanath, et al.			
	5,706,220	1/6/98	Vafai, et al.			
	5,737,448	4/7/98	Gardos			
	5,875,122	2/23/99	Acharya			
	5,995,210	11/30/99	Acharya			
	6,009,201	12/28/99	Acharya			
NV	6,009,206	12/28/99	Acharya			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

NV	H. H. Nguyen, P. Cohen, "Gibbs Random Fields, Fuzzy Clustering, and the Unsupervised Segmentation of Textured Images," Graphical Models and Image Processing, Vol 55, No. 1, pps. 1-19, January 1993.
NV	C. Jawahar, A. Ray, "Techniques and Applications of Fuzzy Statistics in Digital Image Analysis," Fuzzy Theory Systems: Techniques and Applications, Vol. 2, pps. 759-778, 1999.
NV	S. K. Pal, A. Ghosh, "Image Segmentation Using Fuzzy Correlation," Information Sciences No. 62, pps. 223-250, 1992.

EXAMINER

DATE CONSIDERED

9/2/03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7490

SERIAL NO.

09/461,068

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

ACHARYA, et al.

FILING DATE

12/14/99

GROUP

2712

GROUP 2700

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NV	6,047,303	04/04/00	Acharya			
	08/130,243	08/06/98	Acharya			
	08/963,335	11/03/97	Goldstein, et al.			
	08/885,415	6/30/97	Acharya			
	09/008,131	1/16/98	Achara, et al.			
	09/018,601	2/4/98	Acharya			
	09/034,625	3/4/98	Acharya			
	09/163,022	9/29/98	Acharya, et al.			
	08/978,786	11/26/97	Acharya, et al.			
	09/482,551	1/13/2000	Acharya, et al.			
NV	08/963,525	11/3/97	Acharya			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

NV	S. K. Pal, N. R. Pal, "Segmentation Based on Measures of Contrast, Homogeneity, and Region Size," IEEE Transactions on Systems, Man, and Cybernetics, Vol. SMC-17, No. 5, pps. 857-868, September/October 1987.
NV	M. Trivedi, J. Bezdek, "Low-Level Segmentation of Aerial Images with Fuzzy Clustering," IEEE, Vol. SMC-16, No. 4, pps. 589- 597, July/August 1986.
NV	H.J. Zimmermann, "Fuzzy Set Theory and Its Applications (Second, Revised Edition)," Allied Publishers Limited, pps. 34-35, 46-49

EXAMINER

DATE CONSIDERED

9/2/03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(14)

Form PTO-1449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7490

SERIAL NO.

09/461,068

APPLICANT

ACHARYA, et al.

FILING DATE

12/14/99

GROUP

2712

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NV	09/482,552	01/13/00	Acharya			
	08/114,720	07/13/98	Acharya			
	09/050,743	03/30/98	Acharya			
	09/963,097	11/3/97	Booth, et al.			
	08/986,761	12/8/97	Acharya, et al.			
	09/154,176	9/16/98	Acharya			
	08/963,334	11/3/97	Acharya			
	08/986,461	12/8/97	Acharya, et al.			
	09/258,636	2/26/99	Acharya, et al.			
	09/048,901	3/26/98	Acharya			
NV	09/040,806	3/18/98	Acharya			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

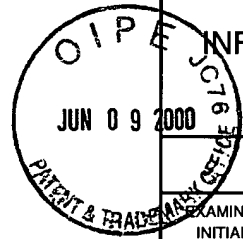
DATE CONSIDERED

9/2/03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(11)

RECEIVED
JUN 13 2000
GROUP 2700



Form PTO-1449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7490

SERIAL NO.

09/461,068

APPLICANT

ACHARYA, et al.

FILING DATE

12/14/99

GROUP

2712

RECEIVED

JUN 13 2000

GROUP 2700

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NV	09/301,753	04/29/99	Acharya, et al.			
	09/083,383	05/21/98	Acharya, et al.			
	09/109,475	07/02/98	Acharya			
	09/140,517	8/26/98	Acharya			
	09/129,728	8/5/98	Acharya			
	09/146,159	9/3/98	Acharya			
	09/152,703	9/14/98	Acharya			
	09/126,203	7/30/98	Bawolek et, al.			
	09/258,118	2/24/99	Vavro, et al			
	09/207,753	12/8/98	Acharya			
NV	09/272,751	3/17/99	Acharya, et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

9/2/03

*EXAMINER: Initial if citation considered whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(11)

Form PTO-1449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7490

SERIAL NO.

09/461,068

APPLICANT

ACHARYA, et al.

FILING DATE

12/14/99

GROUP

2712 GROUP

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NV	09/165,511	10/02/98	Acharya, et al.			
	09/199,836	11/24/98	Bawolek, et al.			
	09/320,192	05/26/99	Acharya, et al.			
	09/211,309	12/14/98	Acharya, et al.			
	09/438,091	11/10/99	Acharya, et al.			
	09/342,863	6/29/99	Acharya, et al.			
	09/191,310	11/13/98	Acharya, et al.			
	09/383,117	8/25/99	Acharya, et al.			
	09/291,810	4/14/99	Acharya			
	09/292,763	4/14/99	Acharya, et al.			
NV	09/390,255	9/3/99	Acharya, et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

9/2/03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7490

SERIAL NO.

09/461,068

APPLICANT

ACHARYA, et al.

FILING DATE

12/14/99

GROUP

2700

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NV	09/329,632	06/10/99	Acharya, et al.			
	09/328,935	06/09/99	Acharya, et al.			
	09/359,831	07/23/99	Acharya, et al.			
	09/359,523	7/23/99	Acharya, et al.			
	09/406,032	9/27/99	Acharya			
	09/410,800	10/1/99	Acharya, et al.			
	09/411,697	10/1/99	Acharya, et al.			
	09/461,080	12/14/99	Acharya			
	09/461,068	12/14/99	Acharya			
	09/432,337	11/2/99	Acharya			
NV	09/429,058	10/29/99	Acharya, et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

A-2-03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

042390.P7490

SERIAL NO.

09/461,068

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

ACHARYA, et al.

FILING DATE

12/14/99

GROUP

2612712

RECEIVED

JUN 13 2000

GROUP 2700

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NV	09/467,487	12/20/99	Acharya, et al.			
	09/467,611	12/20/99	Acharya, et al.			
	09/473,643	12/28/99	Acharya, et al.			
	09/494,087	1/28/2000	Acharya			
	09/507,213	2/25/2000	Acharya, et al.			
	09/507,399	2/25/2000	Acharya, et al.			
	09/519,135	3/6/2000	Acharya, et al.			
NV	09/519,874	3/6/2000	Acharya, et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.